



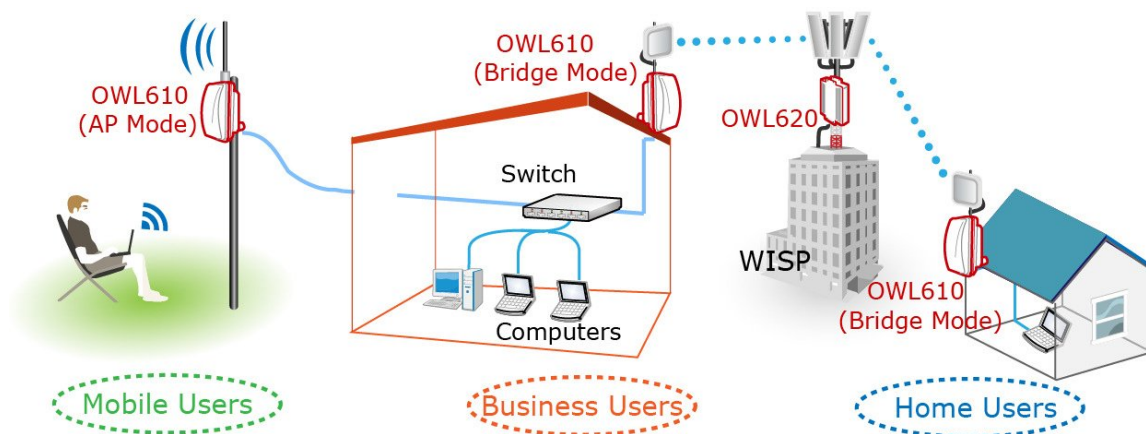
The 4ipnet OWL610 is a Wi-Fi 802.11a/b/g/n device for long range wireless transmission. Its rugged IP68-rated metal housing is weatherproof, watertight and rust-resistant, making it an ideal solution for deployments in harsh conditions, such as outdoor or industrial environments.

When in AP mode, OWL610 operates as an AP station with wall-penetrating high-power signal and long-range coverage to better serve Wi-Fi clients. In addition, it can be set up as a WDS-mesh node by establishing multiple WDS links to bridge neighbor access points together.

Coming with business-class security, OWL610 in AP mode is also ideal for enterprise applications. Furthermore, one OWL610 with multiple SSIDs is capable of acting as multiple Virtual APs (VAPs). By tagging the traffic from each VAP with a unique VLAN ID, it allows for segmenting a corporate network

using VLANs to protect critical resources.

Being a versatile Wi-Fi device, OWL610 does not limit itself to outdoor usage only. When managed by a 4ipnet Controller (such as the WHG-series), it performs as a Wi-Fi base station in either a public or private wireless access deployment.



FEATURES & BENEFITS

Rugged, Compact-Sized, and Adaptive to Versatile Environments

Diversified deployments:

- (1) Municipal Wi-Fi service
- (2) Home Owner Association (HOA), RV parks, and recreation resorts
- (3) Hotels, mobile hospitals, and mobile libraries
- (4) Shopping malls, airports, harbors, roadways, warehouse, and manufacturing plants

IP68 weather- and water-proof, housed in durable, rust-resistant metal casing

2 x 2 MIMO solution with N-type Connector

The single radio OWL610 comes with 2 N-type connectors which allows for choosing suitable antenna types and gains with flexibility depending on application

High-speed with QoS for Voice, Video, and Data Applications

Equipped with a high-speed RF chipset, supporting transmit rate up to 300Mbps

Support IEEE 802.11e Wireless Multi-Media to fulfill bandwidth thirsty triple-play (voice, video, and data) applications

IGMP Snooping

Minimizes unnecessary multicast or broadcast messages being transmitted over the air

A perfect solution to wireless environments with a high density of users

Facilitates video and voice data streaming

Business-class Security and Multiple-SSID/ VLAN tagging Support

Full range of enterprise-grade wireless security mechanisms such as WEP, WPA and WPA2 (802.11i)

Multiple-SSID capability enables one OWL610 to behave like up to 8 unique Virtual APs (VAPs), the equivalent of 8 wireless Virtual LANs (VLANs) to securely segment wireless network traffic

Support client isolation in public hotspot operation

Gigabit Ethernet Port with PoE & Flexible Mounting Options

Standard 802.3af PoE feature reduces the need of additional power cable to the device

Pole mountable; mounting kit included

Wireless Radio

Wireless Interface: 2 x IEEE 802.11 a/b/g/n

Frequency band: 2.4 GHz or 5 GHz

Wireless architecture:

- (1) AP mode
- (2) WDS mode (Repeater / Bridge)

Modulation:

- (1) OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- (2) DSSS (CCK, DBPSK, DQPSK)

Channels:

- (1) USA (Channel 1~11)
- (2) Japan (Channel 1~14)
- (3) Europe (Channel 1~13)

Data rate with auto fallback:

- (1) 802.11a: 6 ~ 54 Mbps
- (2) 802.11b: 1 ~ 11 Mbps
- (3) 802.11g: 6 ~ 54 Mbps
- (4) 802.11n: 6.5 ~ 300Mbps

Transmit Power:

- (1) 802.11a: Up to 22dBm
- (2) 802.11b: Up to 22dBm
- (3) 802.11g: Up to 24dBm
- (4) 802.11an: Up to 22dBm
- (5) 802.11gn: Up to 22dBm

Receiver Sensitivity:

- (1) 802.11a: -95dBm@6Mbps
- (2) 802.11b: -95dBm@1Mbps
- (3) 802.11g: -95dBm@6Mbps
- (4) 802.11an HT20: -95dBm@MCS0
- (5) 802.11an HT40: -91dBm@MCS0
- (6) 802.11gn HT20: -95dBm@MCS0
- (7) 802.11gn HT20: -90dBm@MCS0

IGMP Snooping

Proxy ARP

2.4 GHz Channel Analysis

QoS-WMM

DiffServ/TOS

IEEE 802.1p/COS

IEEE 802.1Q Tag VLAN priority control

IEEE 802.11e WMM

Handover & Roaming

IEEE 802.11i pre-auth (PMKSA cache)

Security

Supports IEEE 802.11 mixed mode; open and shared key authentication

Data encryption with WEP (64/128/152-bits)

User Authentication: WEP, IEEE 802.1X, WPA-PSK,

WPA-RADIUS, MAC ACL, MAC authentication using

RADIUS with built-in 802.1X Authenticator

WPA/WPA2 with TKIP or AES-CCMP with key's

refreshing period setting

Hidden ESSID: Broadcast SSID enable/disable

MAC Address filtering (MAC ACL)

Maximum number of registered RADIUS servers: 2

Station Isolation : All associated stations can not

communicate with each other when enabled

Supports AES data encryption over WDS link

Build-in Layer 2 Firewall, blocking Dynamic ARP

Inspection & DHCP Snooping

Administration

Web-based administration

SNMP MIBII support (v1/v2c)

Provides Event Log

Supports System Log reporting to external SYSLOG server

Utilities for system configuration backup and restoration

Firmware upgrade

NTP time synchronization

Supports RADIUS accounting and accounting update

Support Tunnelled AP Management with 4ipnet

Secure WLAN Controllers

IPv6

Wireless Signal Management

Number of ESSIDs (Virtual APs): 8

Number of associated clients: 128

Setting for maximum number of associated clients

Network policy based on ESSID

Beacon interval: Adjustable to best adapt to the deployment environment

Auto fallback: Data rate for long distance communication in noisy environments

Hardware Specification

IP68 water-proof metal case

Uplink Port: 1 × 10/100/1000 Base-T Ethernet with IEEE 802.3af

PoE (PSE is optional)

LAN Port: 1 × 10/100/1000 Base-T Ethernet

Console Port: 1 × RJ45

Antenna: 2 × N-type connectors

Physical and Power

Support IEEE 802.3af PoE as a PD

Form Factor: Pole Mountable

Dimensions (W x D x H): 9.5" x 9.1" x 5.2"

(240 mm x 230 mm x 130 mm)

Weight: TBD, approx. 5.3lbs (2.4 kg)

Environment

Operation Temperature: -30 ~ + 70 °C (-22~158°F)

Storage Temperature: -40 ~ + 85 °C (-40~185 °F)

Operation Humidity: 0 ~ 95% maximum (Non-condensing)

Storage Humidity: 100% (Non-condensing)

Certifications

FCC, CE

RoHS compliant

Package Contents

4ipnet OWL610 x 1

CD-ROM (with User's Manual and QIG) x 1

Quick Installation Guide x 1

Mounting Kits x 1

**** Specifications subject to change without notice**